

### **ABSTRACT OF THE DISCLOSURE**

A method for applying a power signal of a mobile station in a mobile communication system comprises starting a transmission or a reception by a mobile station, resetting a frame counter to an initial value, increasing the frame counter value, and controlling a power signal for each block inside the mobile station whenever the frame counter value is changed. The mobile communication system maybe a GSM using a TDMA method or a GPRS based system. The turn on time for each block inside the mobile station used is considered to set delay time, and a power ON signal is applied in advance of powering on an antenna switch in accordance with the delay time. As a result, mobile station operation may be adjusted to comply with a standard, stable operation of the mobile station can be assessed and, consumption power of a battery may be reduced, thus lengthening the battery use time.